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MAY 11 2009

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:
PATRICK W. RASCHE
ARMSTRONG TEASDALE LLP
ONE METROPOLITAN SQUARE, SUITE 2600
ST. LOUIS, MO 63102

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing
(day/month/year)

Applicant's or agent's file reference

15060-45

IMPORTANT NOTIFICATION

International application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/US03/25123	11 August 2003 (11.08.2003)	15 August 2002 (15.08.2002)

Applicant

WASHINGTON UNIVERSITY IN ST. LOUIS

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

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For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer Nathan Flynn Telephone No. (571)272-2669
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Nathan Flynn

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 15060-45	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US03/25123	International filing date (day/month/year) 11 August 2003 (11.08.2003)	Priority date (day/month/year) 15 August 2002 (15.08.2002)
International Patent Classification (IPC) or national classification and IPC IPC: G06F 15/173(2006.01) USPC: 709/238		
Applicant WASHINGTON UNIVERSITY IN ST. LOUIS		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 01 April 2004 (01.04.2004)	Date of completion of this report 02 April 2009 (02.04.2009)
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/25123

I. Basis of the report

1. With regard to the **elements** of the international application:*

the international application as originally filed.

the description:
pages 1-45 as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

the claims:
pages 46-70, as originally filed
pages NONE, as amended (together with any statement) under Article 19
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

the drawings:
pages 10-14, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

the sequence listing part of the description:
pages NONE, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

the language of publication of the international application (under Rule 48.3(b)).

the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in printed form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages NONE

the claims, Nos. NONE

the drawings, sheets/fig NONE

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US03/25123

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty (N)

Claims Please See Continuation Sheet YES
Claims Please See Continuation Sheet NO

Inventive Step (IS)

Claims Please See Continuation Sheet YES
Claims Please See Continuation Sheet NO

Industrial Applicability (IA)

Claims Please See Continuation Sheet **YES**
Claims Please See Continuation Sheet **NO**

2. CITATIONS AND EXPLANATIONS

Claims 1, 3-9, 11, 31, 33, 2, 13-20 & 22

US 6,397,259 B1 (Hawkins Jeffrey C et al), 28 May 2002 (2002-05-28), see column 9, line 13 - column 13, line 17, column 18, line 1 - column 20, line 3
column 86, line 53 - column 111, line 67

Claims 1-9, 11, 13-20, 22, 31 & 33

WO 01/80558 A (Solidstreaming Inc) 25 October 2001 (2001-10-25) , see column 24, lines 7-13, column 17, line 20 - column 18, line 3
column 3, line 10 - column 4, line 2
column 6, lines 19-21

Claims 48, 49, 51, 56, 79, 80, 82 & 87

US 6,397,335 b1 (Bretschner John Thomas et al) 28 May 2002 (2002-05-28), see column 3, line 9 - column 5, line 12, column 6, line 30 - column 7, line 65
column 12, lines 15-38
column 13, lines 40-46

Claims 58 & 89

WO 02/061525 A (Hall Howard; Merhar Milan, Pirus Networks; Sokolinski Ilia) 8 August 2002 (2002-08-08), see page 4, lines 11-18, page 98, line 1 - page 102, line 32

Claims 58 & 89

US 6,412,000 B1 (Packer Robert L et al) 25 June 2002 (2002-06-25), see column 2, lines 35-43
column 4, lines 5-17
column 12, line 64 - column 13, line 10

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Form PCT/IPEA/416 (July 1992)

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